Title (en)
REFERENCE PICTURE HANDLING

Title (de)
HANDHABUNG VON REFERENZBILDERN

Title (fr)
MANIPULATION D'IMAGES DE RÉFÉRENCE

Publication
EP 3576412 A1 20191204 (EN)

Application
EP 19171620 A 20121107

Priority
• US 201161557386 P 20111108
• EP 12847061 A 20121107
• FI 2012051090 W 20121107

Abstract (en)
A reference picture marking process and a reference picture list management process is handled in a unified reference picture marking and reference picture list management process. A new idle reference picture list may be used for handling reference pictures that are not used for reference in the current picture. Differential coding of picture order count may be used to increase coding efficiency. The reference picture management syntax structure may be sent in the picture parameter set for improved coding efficiency e.g. in regular GOP (group of pictures) arrangements.

IPC 8 full level
H04N 19/463 (2014.01); **G06T 9/00** (2006.01); **H04N 19/58** (2014.01)

CPC (source: EP US)
H04N 19/46 (2014.11 - US); **H04N 19/463** (2014.11 - EP US); **H04N 19/58** (2014.11 - EP US); H04N 19/52 (2014.11 - EP US)

Citation (search report)
• [A] SJÖBERG R ET AL: "Absolute signaling of reference pictures", 6. JCT-VC MEETING; 97. MPEG MEETING; 14-7-2011 - 22-7-2011; TORINO; (JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/ JCTVC-SITE/, no. JCTVC-F493, 1 July 2011 (2011-07-01), XP030009516
• [A] RICKARD SJÖBERG ET AL: "Attachment to JCTVC-F493 (Absolute Signalling of Reference Pictures): Proposed changes to the HEVC Working Draft", 19 July 2011 (2011-07-19), pages 1 - 23, XP055162850, Retrieved from the Internet <URL:http://phenix.int-evry.fr/jct/> [retrieved on 20150116]
• [XPA] HANNUKSELA M M ET AL: "AHG21: On reference picture list construction and reference picture marking", 7. JCT-VC MEETING; 98. MPEG MEETING; 21-11-2011 - 30-11-2011; GENEVA; (JOINT COLLABORATIVE TEAM ON VIDEO CODING OF ISO/IEC JTC1/SC29/WG11 AND ITU-T SG.16); URL: HTTP://WFTP3.ITU.INT/AV-ARCH/JCTVC-SITE/, no. JCTVC-G643, 8 November 2011 (2011-11-08), XP030110627

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2013114742 A1 20130509; **US 9918080 B2 20180313**; CN 104025599 A 20140903; CN 104025599 B 20181214; EP 2777276 A1 20140917; EP 2777276 A4 20150722; EP 2777276 B1 20190501; EP 3576412 A1 20191204; EP 3576412 B1 20210901; EP 4020989 A1 20220629; ES 2898887 T3 20220309; PL 3576412 T3 20220124; PT 3576412 T 20211126; US 10587887 B2 20200310; US 11212546 B2 20211228; US 2018199051 A1 20180712; US 2020213607 A1 20200702; US 2022124360 A1 20220421; WO 2013068647 A1 20130516

DOCDB simple family (application)
US 201213671410 A 20121107; CN 201280065869 A 20121107; EP 12847061 A 20121107; EP 19171620 A 20121107; EP 21193439 A 20121107; ES 19171620 T 20121107; FI 2012051090 W 20121107; PL 19171620 T 20121107; PT 19171620 T 20121107; US 201815915446 A 20180308; US 202016812977 A 20200309; US 202117646069 A 20211227